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Jun 8, 1994

DERWENT-ACC-NO: 1994-177586
 DERWENT-WEEK: 199422
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TITLE: Free-flowing water-based ink contg. pearlescent pigment - suitable for long-term writing and use e.g. in fountain pen, pen with small tube or ink cartridge

INVENTOR: PIEL, M

PATENT-ASSIGNEE: ROTRING INT GMBH & CO KG (RIEH)

PRIORITY-DATA: 1992DE-4240366 (December 1, 1992)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 600205 A1	June 8, 1994	G	006	C09D011/16
DE 4240366 A1	June 9, 1994	N/A	005	N/A

DESIGNATED-STATES: DE FR GB IT

CITED-DOCUMENTS: 1.Jnl.Ref; JP51017569 ; NL 8900296 ; US 3631135

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 600205A1	October 20, 1993	1993EP-0116917	N/A
DE 4240366A1	December 1, 1992	1992DE-4240366	N/A

INT-CL (IPC): C09D 11/16

ABSTRACTED-PUB-NO: EP 600205A
 BASIC-ABSTRACT:

Water-based ink (I) has a viscosity less than 12 mPa.s (at 25 deg.C) and contains 0.5-25 wt. % pearlescent pigment (II), 55-95% water and opt. other usual additives (III).

Pref. (I) has a viscosity of 1-10, (1-5) mPa.s and contains 1-10, (1-5)% (II) and 75-90% water. (II) consists of flakes with an average dia. less than 60, pref. less than 20 microns. It consists of mica coated with metal oxide ((TiO, TiO2, FeO, Fe2O3, Fe3O4 or mixed forms of these); or 'fish silver'. (III) comprise 0.5-10% other pigments, 0.1-10% water-soluble dyestuffs, 0.5-20% water-miscible organic solvent, 0.1-5% dispersant, 0.5-10% water-soluble binder, 0.1-2% pH regulator, 0.01-0.5% preservative, 0.001-5% surfactant and/or 0.1-10% other (I).

USE/ADVANTAGE - (I) is used in writing implements with narrow orifices, thin capillaries or small tubes, pref. fountain pens or pens with small tubes. The ink is suitable for long-term writing, whereas most inks contg. (II) cause blockages and do not give a uniform line, since (II) sediments out quickly.

ABSTRACTED-PUB-NO: EP 600205A
 EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.0/0

DERWENT-CLASS: G02
 CPI-CODES: 302-A04A;